Center Independent Research & Development: GSFC IRAD

Completion and Testing of PACS SWIR Channel

Completed Technology Project (2011 - 2013)

Project Introduction

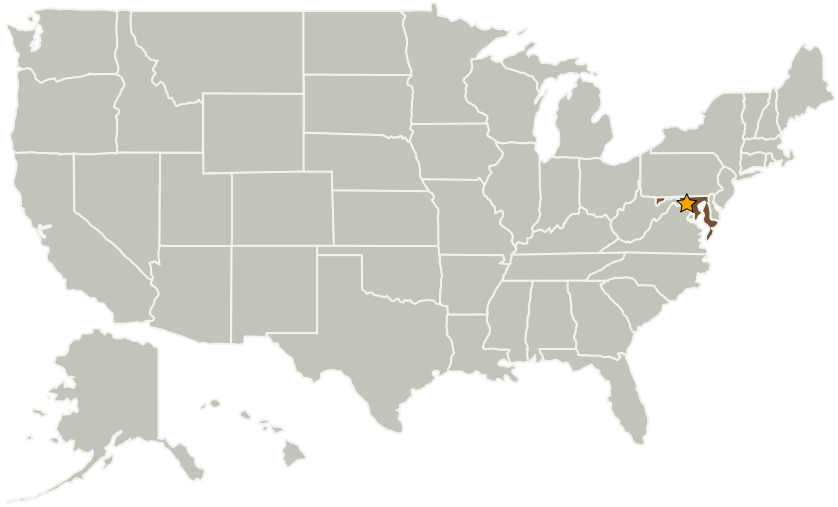
PACS SWIR has important technological innovations that will be necessary to meet the mission requirements for wide FOV, hyperangle capability, high polarimetric accuracy, and 1 km pixel size at NADIR.

The SWIR wavelengths are essential for science requirements for aerosol retrievals over land, for enhanced particle microphysics, and for aerosol absorption estimates. SWIR wavelengths also add important microphysical and thermodynamic information for cloud particles.

Anticipated Benefits

Essential for earth science

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland
University of Maryland-Baltimore County(UMBC)	Supporting Organization	Academia	Baltimore, Maryland

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Primary U.S. Work Locations
Maryland

Project Website:

http://sciences.gsfc.nasa.gov/sed/

Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Center Independent Research & Development: GSFC IRAD

Project Management

Program Manager:

Peter M Hughes

Project Manager:

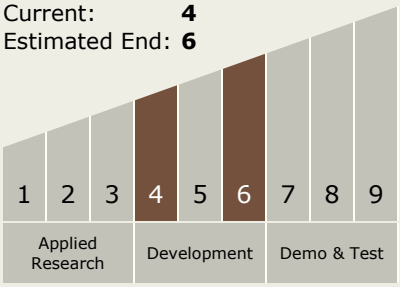
Terence A Doiron

Principal Investigator:

Leroy M Sparr

Technology Maturity (TRL)

Start: **4**
Current: **4**
Estimated End: **6**



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Technology Areas

Primary:

- TX08 Sensors and Instruments
  - TX08.1 Remote Sensing Instruments/Sensors
    - TX08.1.4 Microwave, Millimeter-, and Submillimeter-Waves